Elias Benussi

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LINKS

My GitHub
My LinkedIn
My blog

EDUCATION

IMPERIAL COLLEGE LONDON

MEng in Computing (Artificial Intelligence)
Graduated May 2018 | London, UK
First slass honours

AREAS OF INTEREST

• Distributed systems, session types and actor Model
• Functional programming and type systems
• Machine learning and statistics

PROJECTS & PUBLICATIONS

• Distinguished master project, winner of the Corporate Partnership Programme Awards: *Effpi - A Scalable runtime system for type-driven concurrent programming*

SKILLS

PROGRAMMING

Over 10k lines:
Scala, Python
Over 1k lines:
Go, Java, PostgreSQL
Familiar:
C, C++, Bash, Matlab
Assembly, Haskell

EXPERIENCE

FACULTY SCIENCE LIMITED

| Software engineer
September 2018 | London, UK

- Worked on the experiment tracking feature in the platform, integrating MLflow. This allows the storing and plotting of parameters and metrics used during the development of statistical models.

| Software engineer intern
April 2017 – Sep 2017 | London, UK

- Participated in the development of two services that provide the ability to create REST APIs and interactive apps within the platform. These features reduce cognitive load and engineering skills required by data scientist to deploy their models to customers in a useful format.
- Worked on a feature that provides custom environment definitions for servers. This allows data scientists working on the same project to share environments and apply them easily to any new server, reducing the need for manual installations and improving replicability.

EGYM GMBH

| Back-end software engineer intern
July 2016 – September 2016 | Berlin, Germany

- Experimented migrating back-end services from Java to Go microservices, to provide a proof of concept.
- Experienced many aspects of a back-end building one from scratch both with and without a framework (Revel).
- Had the opportunity to improve my software design ability having independence in my implementation choices receiving then detailed feedback on the results.

PROJECTS

EFFPI

| Final year project for Computing MEng at Imperial College
November 2017 – June 2018 | London, UK

- Leveraged new features in the Dotty compiler (future Scala 3) such as dependent function types and union types to develop a framework for concurrent programming, that uses Behavioural types to provide compile time correctness checks.
- Developed the internal scheduler for the runtime system to allow the system to scale from few thousands concurrent actors to hundred of thousands.